INTERNATIONAL SEARCH REPORT

Inte anal Application No PC 1 / EP 2004 / 052677

							
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E21B7/18 E21B10/60							
According to International Patent Classification (IPC) or to both national classification and IPC							
	SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21B							
Documenta	tion searched other than minimum documentation to the extent that such	documents are included in the fields se	arched				
Electronic d	ata base consulted during the International search (name of data base an	nd, where practical, search terms used)					
EPO-Internal, PAJ, WPI Data							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevan	nt passages	Relevant to claim No.				
X	US 5 887 667 A (VAN ZANTE CRAIG A 30 March 1999 (1999-03-30) figure 4	ET AL)	1,3-5, 12,15				
Α	US 2 779 571 A (ORTLOFF JOHN E) 29 January 1957 (1957-01-29) figures 1,7		1				
Α	US 3 938 600 A (ESSMEIER DONALD E) 17 February 1976 (1976-02-17) figure 3		1				
Α	WO 02/092956 A (SHELL CANADA LTD ;B JAN JETTE (NL); SHELL INT RESEARCH 21 November 2002 (2002-11-21) abstract figure 1	LANGE (NL))	1				
	-/-	-					
X Further documents are listed in the continuation of box C. Patent family members are listed in annex.							
A document defining the general state of the art which is not considered to be of particular relevance *A* document defining the general state of the art which is not considered to be of particular relevance *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the							
E earfier document but published on or after the international riling date *X* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to							
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is called to establish the publication date of another character is a constitute of another character in the constitution of the constitution							
"O' document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled							
"P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family							
Date of the actual completion of the International search Date of malling of the international search report							
13 January 2005 25/01/2005							
Name and mailing address of the ISA Authorized officer							
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Schouten, A					

INTERNATIONAL SEARCH REPORT

Inte nal Application No
PC 1/EP2004/052677

0.40		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 892 905 A (TOT AANNEMING VAN WERKEN VOOR) 4 April 1962 (1962-04-04) page 1, column 2, lines 46-72 figure 1	1
A	US 6 062 311 A (SCOTT DAVID ET AL) 16 May 2000 (2000-05-16) abstract figure 1	1
A	US 4 119 160 A (SUMMERS DAVID A ET AL) 10 October 1978 (1978–10–10) column 3, lines 14–25 figure 2	

information on patent family members

Inti Onal Application No
PC 1/ EP2004/052677

			101,212001,002011
Patent document cited in search report		Publication date	Patent family Publication member(s) date
US 5887667	Α	30-03-1999	NONE
US 2779571	A	29-01-1957	NONE
US 3938600	Α	17-02-1976	NONE
WO 02092956	A	21-11-2002	BR 0207892 A 23-03-2004 CA 2439912 A1 21-11-2002 EA 4567 B1 24-06-2004 EG 23135 A 28-04-2004 WO 02092956 A1 21-11-2002 EP 1366268 A1 03-12-2003 MX PA03007979 A 04-12-2003 US 2004094332 A1 20-05-2004
GB 892905	Α	04-04-1962	NONE
US 6062311	Α	16-05-2000	GB 2324818 A 04-11-1998 CA 2236563 A1 02-11-1998
US 4119160	Α	10-10-1978	NONE